



LED Bulb Series

Features and Benefits

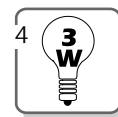
- Light source: 1 piece 3.6W Zenigata LED
- Long LED life: More than 50,000 hours
- 45mm ball shape
- Low heat, less than 60°C for 4W
- No UV or IR light radiation
- Instant “ON” to 100% brightness
- No mercury or other inorganics
- Highest luminous efficacy: up to 60lm/watt for white color
- Homogeneous flood illumination
- Machined aluminum heat fins with excellent thermal efficiencies
- This 4W LED bulb is available in the following white color temperatures:
 - 2600K – 3000K (Warm White)
 - 5000K – 6000K (Natural White)
 - 6000K – 7000K (Cool White)
- 4W LED bulb can achieve directional light output equal to 30W incandescent bulb
- 1 year limited warranty
- Works with worldwide electrical systems (110 or 220V AC)



Note: Picture for illustration only

Typical Applications

- Energy Saving Programs
- Sustainable Energy
- Replace Standard GLS lamps
- Accent Lighting
- Bath and Vanity Lighting
- Amusement Park Lighting





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PRODUCT SPECIFICATIONS

LIGHT SOURCE	1X3.6W Zenigata power LED
OPTICS	White diffused glass lens
BULB TYPE	45 mm ball shape
BEAM ANGLE	120° (Flood)
RENDERING INDEX (Ra)	>70 (warm white) >65 (natural white) >60 (cool white)
TOTAL LENGTH	See product dimensions below
WEIGHT	55 ± 2g
HEATSINK	Machined pure aluminum with anodize finish
BASE TYPE	E27
DIMMABILITY	Not Dimmable

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE Ambient: -20°C to 40°C; Surface of Lamp: 60°C to 70°C

ELECTRICAL SPECIFICATIONS

VOLTAGE REQUIREMENT	110 or 220V AC
POWER CONSUMPTION	≤ 4W
POWER FACTOR	≥ 0.6

PRODUCT DIMENSIONS (mm)

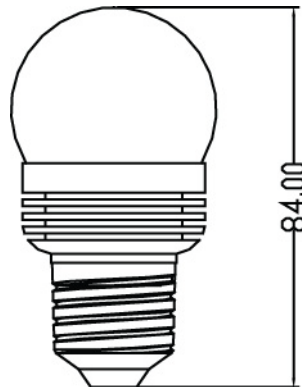


Fig 1. E27 Base - measurement in millimeters



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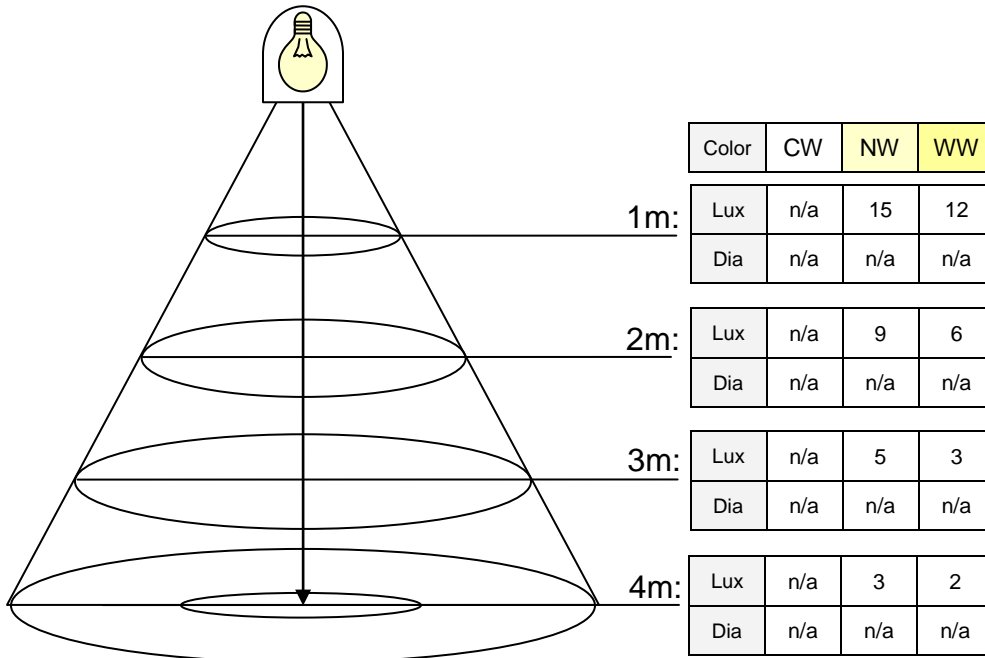
Typical Electrical Characteristics at $T_a=25^\circ\text{C}$

4W Model

Parameter	Symbol	Min	Typ	Max	Unit
Input Voltage (110V AC)	V_{AC}	100	—	120	V
Input Voltage (220V AC)	V_{AC}	200	—	240	V
LED Forward Current	I_F	—	350	—	mA
Estimated Life ^[*]		—	50,000	—	hours
Optimized Body Temperature (1X3W LED)	T	—	55	60	$^\circ\text{C}$

Note[*] – Manufacturer projects LED lamp made with Sharp LED to maintain an average of 70% lumens maintenance after 50,000 hours. This estimation is made based on data from LED manufacturer

LED Bulb Illuminance Measurement



- Notes:
- 1) LED Bulb typical illuminance data is measured with the LED bulb installed in recess reflector can
 - 2) Center beam lux is measured with Digital Lux Meter (Model TES-1334A)